Outside Plant Arid-Core® Stranded Loose Tube Non-Armored All Dielectric

Designs for aerial and conduit applications

CommScope®

ARID-CORE water blocking technology protects fibers from moisture /significantly reduces termination effort

Certain configurations available in lengths of 8.4 miles/14 km singlemode and 4.95 miles/8 km multimode

Standard color-coding on fibers and buffer tubes for easy identification

Fiber types and grades available:

Singlemode:	(8H) 8.3/125μm High Performance 9.0 MFD Fiber and (8A) 8.3/125μm High Performance 9.3 MFD Fiber
Multimode:	(6U) UltraFiber™ 62.5/125μm, (6F) Enhanced FDDI 62.5/125μm, and (5H) High Performance 50/125μm

Product Type/ Fiber Count	Catalog Number	Outer Diameter inch/mm	Min. Bend Radius Loaded inch/cm	Unloaded inch/cm	Installation Loading lbs/newtons	Crush Resistance N/cm	Impact Resistance 25 Impacts	Weight lbs/ 1000'	kg/ 1000m
Single jacket 2 - 72 Fiber	O-**XXX**-LN-**XY**-F12NS	.49/12.5	9.8/24.0	4.9/12.5	600/2700	220	2.9 N•m	77	115
74 - 96 Fiber	O-**XXX**-LN-**XY**-F12NS	.57/14.5	11.4/29.0	5.7/14.5	600/2700	220	5.9 N•m	102	152
98 - 120 Fiber	O-**XXX**-LN-**XY**-F12NS	.65/16.6	13.0/33.2	6.5/16.6	600/2700	220	8.8 N•m	121	181
122 - 144 Fiber	O-**XXX**-LN-**XY**-F12NS	.73/18.6	14.6/37.1	7.3/18.6	600/2700	220	11.8 N•m	136	203
146 - 216 Fiber	O-**XXX**-LN-**XY**-F12NS	.72/18.4	14.4/36.6	7.2/18.4	600/2700	220	11.8 N•m	146	218
218 - 288 Fiber	O-**XXX**-LN-**XY**-F12NS	.84/21.3	16.8/42.6	8.4/21.3	600/2700	220	11.8 N•m	198	295
Singlemode/Multimode Composite (4-288 fiber)	O-**XXX**-LN-**CM**-F12NS/**XYaaa/XYbbb**	Refer to above specifications.							

Variables in the Catalog Number:

XXX = Total Fiber Count

XY = Fiber Grade

8H (8.3/125μm High Performance 9.0 MFD fiber) **6F** (Enhanced FDDI 62.5/125μm)
8A (8.3/125μm High Performance 9.3 MFD fiber) **5H** (50/125μm)
6U (UltraFiber 62.5/125μm)

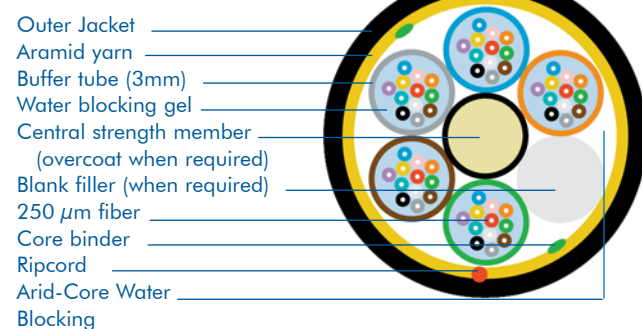For Composites Only: **aaa** is replaced with singlemode fiber count **bbb** is replaced by multimode fiber count

Buffer Tubes/Fiber identification colors: 1/Blue, 2/Orange, 3/Green, 4/Brown, 5/Slate, 6/White, 7/Red, 8/Black, 9/Yellow, 10/Violet, 11/Rose, 12/Aqua

Buffer tubes 13-18 repeat color sequence with tracer stripe.

Arid Core Stranded Loose Tube Non-Armored All Dielectric

(60 Fiber Version Shown)

Outer Jacket
Aramid yarn
Buffer tube (3mm)
Water blocking gel
Central strength member
    (overcoat when required)
Blank filler (when required)
250 μm fiber
Core binder
Ripcord
Arid-Core Water
Blocking

Mechanical Properties

Description	Specification
Operating Temp.	-40 to 70°C
Installation Temp.	-20 to 70°C
Storage Temp.	-40 to 70°C
Max. Long Term Load	135 lbs/600 N
Crush Resistance	> Bellcore GR-20
Impact Resistance	> Bellcore GR-20
Flexing	> Bellcore GR-20
Twist/Bend	> Bellcore GR-20

Fiber Optic Numbering Key

CommScope Catalog No. Position

O – 036 – LN – 8H – F 12 NS
1 2 3 4 5 6 7 8 9 10 11 12 13

Steps to build the catalog number for the cable you need!

Let the installation environment determine your cable style.

Position 1 (Cable Style)
- O ....Outdoor (Arid Core Standard)
- U ....Urethane
- M ....Messenger
- H ....Harsh Environment
- Z ......Zero Halogen
- P ......Plenum
- R ......Riser
- F ......Flooded Stranded Loose Tube

How many fibers do you need?*

Positions 2, 3, & 4 (Total Fiber Count)

Total Fiber Count (in increments of two)

*XXX variable in catalog number.

What cable construction do you want?

Positions 5 & 6 (Construction)
- LA ....Stranded Loose Tube Armored
- LN ....Stranded Loose Tube Non Armored All Dielectric
- LH ....Stranded Loose Tube Heavy Duty All Dielectric
- L2 ....Stranded Loose Tube Dual Jacket/Single Armor
- L3 ....Stranded Loose Tube Triple Jacket/Dual Armor
- FA ....Fiber Feeder® Armored
- FN ....Fiber Feeder® Non Armored All Dielectric
- FS ....Fiber Feeder (Self Supporting)
- CA........Central Tube Armored
- CN ......Central Tube Non Armored All Dielectric
- DS ....Distribution
- BO ......Breakout
- DU ......Duplex
- IC ....Interconnect
- ZC ....Zipcord
- SP ....Simplex

What type of fiber does the application require?*

Positions 7 & 8 (Fiber Type)
- 8A ....8.3/125µm Singlemode, 9.3 MFD
- 8H ....8.3/125µm Singlemode, 9.0 MFD
- 6U ....62.5/125µm UltraFiber™ Multimode
- 6F..........62.5/125µm Enhanced FDDI Grade Multimode
- 5H ....50/125µm Multimode
- CM ......Composite (Singlemode and Multimode)

*XY variable in catalog number

Do you want jacket print in feet or meters?

Position 9 (Unit of Length printed on Jacket)
- F ....Printed in Feet (standard)
- M ......Printed in Meters

Positions 10 & 11

For cordage, value indicates outside diameter; otherwise additional description
- 01-12........Fiber Count per Subunit
- HD............Heavy Duty
- SD ....Standard

Cordage
- 18 ....1.8 mm Jacket OD
- 20 ....2.0 mm Jacket OD
- 25 ....2.5 mm Jacket OD
- 29 ....2.9 mm Jacket OD

Do you need a co-extruded stripe for tracer?*

Positions 12 & 13 (Color Field)

• **Outdoor Cables** (stripe or tracer)
Outdoor Cables are manufactured with a standard all-black jacket — No Stripe (NS). Stripes (tracers) are also available in the following colors:

Blue (BL), Green (GR), Orange (OR), Violet (VL), White (WH) and Yellow (YL).

• **Premises, Indoor/Outdoor or Outdoor Tight Buffer Cables** (jacket color)
Manufactured with the following standard jacket colors:
Black (BK) - for Indoor/Outdoor and Tight Buffer Outdoor

Orange (OR) - for Multimode & Composite

Yellow (YL) - for Singlemode

Available Non Standard Jacket Colors
(min. order required for non-standard colors):
- AQ ....Aqua
- BK ......Black
- BL ......Blue
- BR ......Brown
- GR......Green
- OR......Orange
- RD ......Red
- RS ......Rose
- SL........Slate
- VL........Violet
- WH ....White
- YL........Yellow

*ZZ variable in catalog number.

Note...

When positions 7 & 8 are CM (composite cables), positions 14-23 are required.

- Position 14 - 15 ....Fiber type 8H or 8A
- Position 16 - 18 ....Fiber Count (aaa variable in catalog number)
- Position 19 - 20 ....Multimode Fiber Type
- Position 21 - 23 ....Fiber Count (bbb variable in catalog number)

Fiber